

## SEQUENCE LISTING

<110> Dyer, Cheryl J.  
 Du, Fengxing  
 Grosz, Michael D.  
 Byatt, John C.

<120> USE OF A SINGLE NUCLEOTIDE POLYMORPHISM IN THE CODING REGION OF  
 THE LEPTIN RECEPTOR GENE TO ENHANCE PORK PRODUCTION

<130> 11916.0058.00PC01

<150> US. 60/553,582  
 <151> 2004-03-16

<150> U.S. 60/493,158  
 <151> 2003-08-07

<160> 44

<170> PatentIn version 3.2

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 <222> (299)..(299)  
 <223> N = T or C  
  
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aatgtcctaa ca gaa ttt att tat gtg ata act gca ttt gac ttg gca tat      171
          Glu Phe Ile Tyr Val Ile Thr Ala Phe Asp Leu Ala Tyr
            1             5             10

cca att act cct tgg aaa ttt aag ttg tct tgc atg cca cca aat aca      219
Pro Ile Thr Pro Trp Lys Phe Lys Leu Ser Cys Met Pro Pro Asn Thr
      15             20             25

aca tat gac ttc ctc ttg cct gct gga atc tca aag aac act tca act      267
Thr Tyr Asp Phe Leu Leu Pro Ala Gly Ile Ser Lys Asn Thr Ser Thr
      30             35             40             45

ttg aat gga cat gat gag gca gtt gtt gaa ang gaa ctt aat nna agt      315
Leu Asn Gly His Asp Glu Ala Val Val Glu Xaa Glu Leu Asn Xaa Ser
          50             55             60

ggt acc tac tta tca aac tta tct tct aaa aca act ttc cac tgt tgc      363
Gly Thr Tyr Leu Ser Asn Leu Ser Ser Lys Thr Thr Phe His Cys Cys
          65             70             75

ttt tgg agt gag gaa gat aaa aac tgc tct gta cat gca gac aac att      411
Phe Trp Ser Glu Glu Asp Lys Asn Cys Ser Val His Ala Asp Asn Ile
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<212> PRT
<213> Sus scrofa

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<222> (56)..(56)
<223> The 'Xaa' at location 56 stands for Thr or Met.

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<220>
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<222> (60)..(60)
<223> The 'Xaa' at location 60 stands for Ile or Ser.

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His Asp Glu Ala Val Val Glu Xaa Glu Leu Asn Xaa Ser Gly Thr Tyr	50	55	60
Leu Ser Asn Leu Ser Ser Lys Thr Thr Phe His Cys Cys Phe Trp Ser	65	70	75
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 tcttgcattgc caccaaatac aacatatgac ttctcttgc ctgctggaat ctcaaagaac 180  
 acttcaactt tgaatggaca tgatgaggca gttgttgaaa cggaacttaa tataagtggg 240  
 acctacttat caaacttatc ttctaaaaca actttccact gttgcttttg gagtgaggaa 300  
 gataaaaact gctctgtaca tgcagacaac attgcaggga aggcatttgt ttcagcagta 360  
 aattccttag tttttcaaca aacagggtgca aactggaaca tacagtgcgt gatgaaagag 420  
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&lt;223&gt; N = unknown

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tgcagaggaa gtttattttc ccttagcttt tgcgtcgtta aaatgattac tcctgaggaa    180
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ggctgtttct attcctctgg tcaatatgta gctcatctct aaacaggaac atagggtctcc    420
aatangannt cccagtcctt gtagttaagt gtaccttaac tttttgcttc ttotttcttc    480
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catcaatctg tttagacttg aagtcanngc tcaaattann ttctgnnntt tcatnnngnn    600
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ggtcc                                           1025

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&lt;211&gt; 446

&lt;212&gt; DNA

&lt;213&gt; Sus scrofa

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)..(446)

&lt;223&gt; N = unknown

&lt;400&gt; 14

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gaaatggtct cgattgagct tttacttttg tatagttcaa caggggtaga gagccatggg	360
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&lt;213&gt; Sus scrofa

&lt;400&gt; 16

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gaaatcctgt acatactggg gccagtggt gccatcccc tggccattgc cttactcttc      300
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&lt;210&gt; 17

&lt;211&gt; 625

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&lt;213&gt; Sus scrofa

&lt;400&gt; 17

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&lt;210&gt; 18

&lt;211&gt; 22

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Synthetic nucleotide

&lt;400&gt; 18

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caggagctat taaaat 16

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25

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25

<210> 31

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic nucleotide

<400> 31

cacacatcct ggactaattg agacg

25

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22

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&lt;221&gt; misc\_feature

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&lt;223&gt; N = T or G

&lt;400&gt; 42

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cttcccagcc tttttctgag atgttggtta ttcggtccta gatgacaagc gctcaactct	360
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&lt;210&gt; 43

&lt;211&gt; 395

&lt;212&gt; DNA

&lt;213&gt; Sus scrofa

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (192)..(192)

&lt;223&gt; N = T or C

&lt;400&gt; 43

gatatatattg agctacagaa ggttttctag gcaacagaat atcaaaagag gggtaaagcc	60
tacatatctt cagtctaaaa aatgaagtta taaaactctt agtgtcttaa gctatgtttt	120
caacagaccc tctgatattt ggaaaagcag aggaaaattt ggaagccac tggtgcaatc	180
aacaggagct antaaaattt tagtctattt tttcaactct atcagttctt ttcttatact	240
caaatgatta tcctggctat taaataatct ctttcctccc tccacacacc cgctgccagt	300
ggactctcct tttatatatt ttactttttg aattcaagtc ttctatatct tagtacaatg	360
gccaaaaaaa ctaagctttc taaggcaccc aagag	395

&lt;210&gt; 44

&lt;211&gt; 838

&lt;212&gt; DNA

&lt;213&gt; Sus scrofa

&lt;400&gt; 44

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